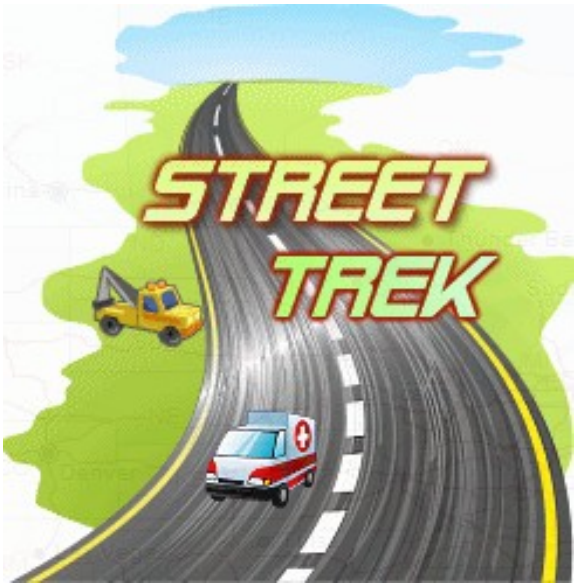
StreetTrek™ User Manual



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Welcome to StreetTrek

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Welcome to **StreetTrek™** Vehicle Tracking. This help covers the use of **StreetTrek™** Client Vehicle Tracking software. For the latest news about **StreetTrek™** visit www.streettrek.com.

Getting started

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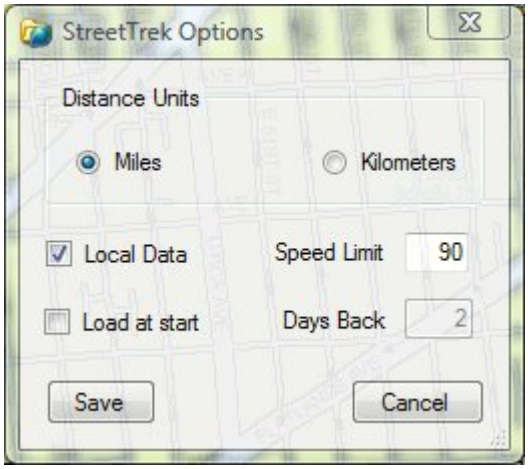
When you launch **StreetTrek™** for the first time you will be presented with the map of North America. You can zoom into any area using common navigation methods like holding the left mouse button down and drawing a rectangle on the map around the area you wish to zoom in. Once you release the left mouse button, move the mouse cursor within the rectangle and click anywhere inside. The map view port will change to the area you selected.

Depending on the region you are in you may want to select distance and speed unit measure. Default settings are miles for distance and mph (Miles per Hour) for speed. To switch to metric distance and speed select menu Setup|Options. On the pop up dialog select the desired distance units.



If you will be using **StreetTrek™** for **Vehicle Tracking**, change the **Speed Limit** to match your local traffic law. **Speed Limit** entered here can be overridden on per vehicle basis, refer to the Changing Vehicle Name and Icon topic for details.

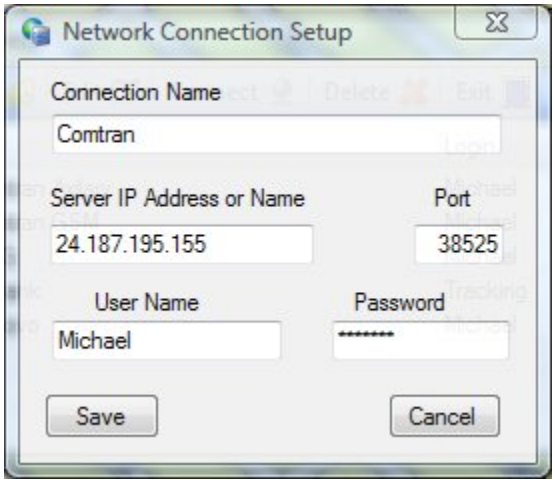
If you data comes from hardware attached to the PC through a **Serial or USB** port, check the '**Local Data**' check box. If **StreetTrek™** receives data over the Network or Internet '**Local Data**' should be **unchecked**.

If you expect the map to be populated with vehicles/assets positions saved during the previous program run, then check the '**Load at start**' box (default). The **Days Back** edit field allows you to specify the threshold for loading saved data. Positions older then the '**Days Back**' value will not be loaded.

The next step is to get your vehicles plotted onto the map.

If the source of **GPS data** is a **MOTOTRBO™** radio, you need to plug **MOTOTRBO™ USB** cable into the PC **USB port**. If **MOTOTRBO™** radio drivers are properly installed, **StreetTrek™** will automatically configure itself for **MOTOTRBO™** hardware. Refer to the **MOTOTRBO Settings** and **Troubleshooting** sections for details.

If GPS data is sent to your PC from the **StreetTrek™ Server** over the **Internet** make sure the PC running **StreetTrek™** has **Internet connection**. Select the **Setup|Network** menu option or click the toolbar button. You will be presented with a form like the one below, except that most fields will be blank. On this form enter the Server IP Address or, if the server runs on the same LAN, Server Machine Name, **TCP Port** number and Login credentials - **user name** and **password**.



For more detailed description of Network Setup refer to Login topic.

During the first program run or after running an Upgrade you may encounter Windows Firewall Warning about the program trying to access the **Internet** or change **Network Settings**. Select the option that allows Internet or Network access. StreetTrek does not send any data to web sites or open any ports accepting outside connections.

Note:
MOTOTRBO™ is a registered trademark of Motorola, Inc

System Requirements

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StreetTrek requires a PC with Windows 2000 or later operating system.

Vehicle positions information is sent to your PC over the Internet. Broadband Internet connection - Cable or DSL is preferable, however, dial-up modem connection is acceptable for most operations.

StreetTrek is a graphic-intensive application. For best results use a PC with adequate amount of RAM (1G RAM recommended) and high resolution video card and display. Since StreetTrek is capable of showing multiple maps, dual monitor system is highly recommended.

StreetTrek requires Windows administrative login due to **MOTOTRBO™** features that require administrative privileges.

Getting Help

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To get assistance using StreetTrek send email to info@streettrek.com or call toll free 866-531-7676 and speak with the StreetTrek representative.

Software Registration

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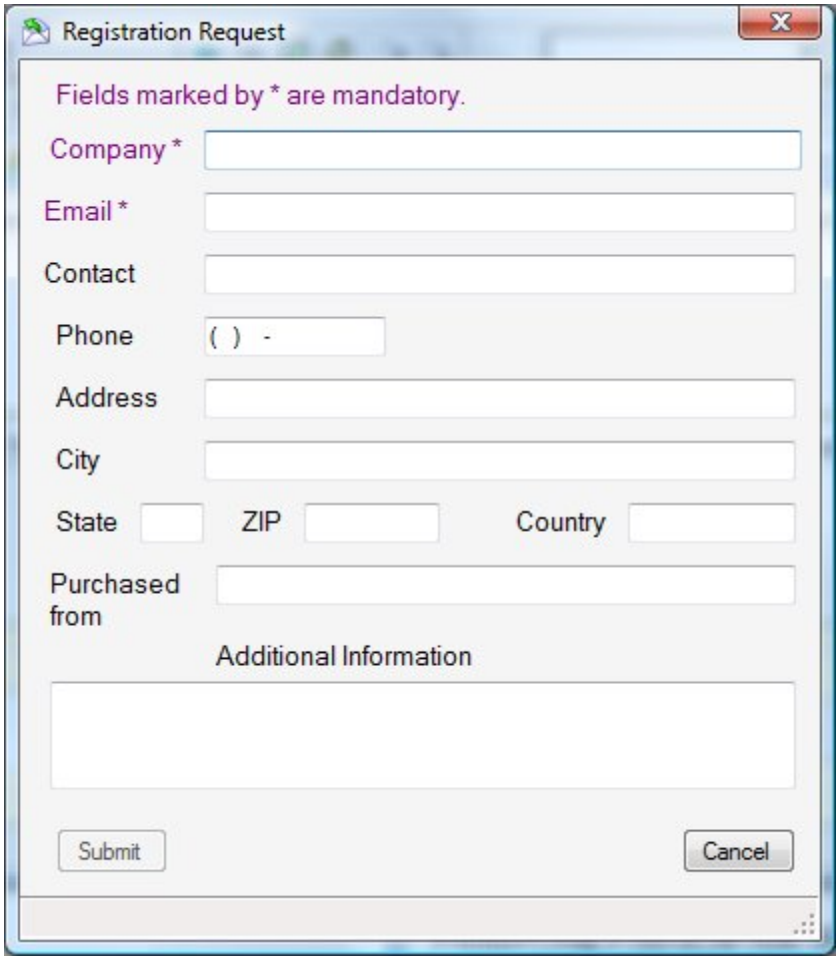
StreetTrek contains copyrighted third-party materials - digital maps. To satisfy the terms and conditions of distributing these copyrighted materials each installation of StreetTrek requires registration. To register your copy of StreetTrek select File|Register menu option, or a similar option under the Information toolbar split button - you have to click the arrow portion of the button to pull down a sub-menu. You will be presented with a form like the one shown below

StreetTrek Registration
To register your copy of StreetTrek enter the Registration Code into the text box below. To obtain the Registration Code call toll free 1-866-531-7676 and submit the 'Product Code' shown below.
You can also submit an email request to the email address below by clicking the email button.
Email
info@streettrek.com
Product Code: 1261-4A540011
Registration Code:
Register
Cancel

The form shows a Product Code that uniquely identifies your copy of StreetTrek installed on a particular machine. To register StreetTrek you will need to obtain registration code that you will enter into the 'Registration Code' field. To obtain your Registration Code either call toll free the phone number shown, or send an email request by clicking the **Email** button, which would open a Registration Request Form, like the one shown below.



Once you fill in the mandatory fields the **Submit** button will become enabled. Clicking the **Submit** button would generate and send an email to **info@streettrek.com**. In order to better serve you in case you need to re-install **StreetTrek™** we recommend filling in the optional fields. A confirmation email listing the information you entered will be sent to the email address you specified. This is the **preferred** method of requesting **Registration** for computers with **Internet** access.

Alternatively, you can send an email to **inof@streettrek.com** or **sales@streettrek.com** from any PC with an Email account. The text of the email registration request is automatically generated and pasted to the Windows Clipboard when you open the Registration Form. All you need to do is to paste the text into the email body and send it to **inof@streettrek.com** or **sales@streettrek.com**.

Note: an unregistered copy of StreetTrek will run for 15 days in evaluation mode. During these 15 days StreetTrek will remain fully functional. If you fail to register within the 15 days evaluation period, StreetTrek will stop showing street level maps. Registration will permanently remove this restriction.

Once StreetTrek is registered respective menu options will not be not visible to the user.

Copyright

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Your purchase of StreetTrek entitles you installing the number of program copies specified in your purchase contract. You are not authorized distributing StreetTrek. StreetTrek is copyrighted software and uses following copyrighted third party software components:

MapPro71 ActiveX Control Copyright © 1988 - 2008 Trius Inc.
Dynamap®/Transportation Data © 2008 Tele Atlas North America, Inc.

For more information about third-party products use the Help/About MapPro

menu option.

Terms and conditions of distributing third-party copyrighted materials require each installed copy of StreetTrek to be registered within 15 days. For information about StreetTrek Registration refer to the Software Registration section.

Main Window

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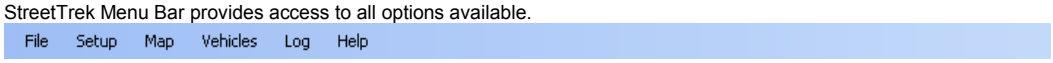
StreetTrek Main Window is it's 'Command and Control' center. It is designed to provide maximum space for the map and easy access to program controls. StreetTrek Program Controls - menu bar and toolbar, are on the top of the Main Window.

StreetTrek Menu Bar provides access to all options available.



StreetTrek toolbar is below the menu bar.

It provides quick access to the most commonly used options. All toolbar controls have tool tips. To find out what a particular toolbar control does, move the mouse cursor over the control and read the text in the balloon.
In addition some actions can be performed directly on the map surface. Refer to Map Navigation topic for further details.

The most frequently used toolbar controls are:

zooms map in/out

enable/disable grab and drag map navigation.

find address.

open a Raster Map. The arrow on the right edge of the button indicates there might be submenu options. Clicking on the arrow part of the button will produce a submenu listing previously opened Raster Maps (if any), that can be selected directly.

import ESRI Shape Files.

place a user-defined landmark.

clears vehicle icons from the map.

open Vehicle Log Form.

open Vehicle Report Form.

save current map view to an image file (screenshot).

print the map.

save the current Map View upon application exit.

saves the current map view port.

restores the map view port.

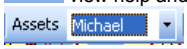
opens Vehicles/Assets list - a table of current vehicles or assets. The arrow on right edge of the button indicates there are submenu options that pop up when the user clicks on the arrow part of the button.

view/edit user-defined Landmarks.

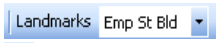
 view change **MOTOTRBO™** settings. This option is visible only after StreetTrek detected **MOTOTRBO™** radio presence.

view change connections. This option is not visible when StreetTrek switched to Local Mode upon **MOTOTRBO™** detection.

view help and copyright information.



locates a vehicle.



locates a user-defined landmark.

will close StreetTrek.

Since menu bar and tool bar provide similar functionality you can hide one of them. This is done via context menu activated by holding the right mouse button down when the mouse cursor is on the menu bar or the toolbar. Uncheck the toolbar you want to hide, or check the toolbar you want to bring back.

Adjusting window position and size

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StreetTrek map windows, when shown for the very first time, will be drawn in default size at the default screen position. You can adjust the size of the map window by moving the mouse cursor toward the window edge and dragging the border with the mouse while holding the left mouse button down. You can also drag any StreetTrek window (not maximized) over the display surface the same way you would with any Windows Application - place the mouse cursor onto the window caption and drag the window while holding the left mouse button down. StreetTrek will 'remember' the size and position and use the same settings next time. This applies equally to the Main Window and the Detailed Map windows. If you use a dual monitor system, it makes sense placing detail windows onto the secondary display.

Map Navigation

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StreetTrek offers most the commonly used map navigation methods - pan, drag, center, zoom in, zoom out.
Pan is performed when you need moving the map to uncover adjacent area. You can pan the map North, South, East, West pan by moving the mouse cursor near the map border and clicking the left mouse button when the mouse cursor changes shape to a big arrow. If you place the mouse cursor near one of the map corners and click the left mouse button, then the map will be panned in two directions at once.

Another way of changing the map view port is to 'grab and drag' the whole map. To do so click the toolbar button. Once you move the mouse cursor over the map the cursor shape will change to . At this point you can press and hold down the left mouse button, and drag the whole map in any direction. To cancel 'grab and drag' click the right mouse button or click again the toolbar button. In any case, the shape of the mouse cursor will suggest whether the grab and drag is enabled.

To center the map around a point on the map move the mouse cursor to that point and double-click the left mouse button. The map will redraw centered around the point selected.

To zoom in or zoom out the map view port, use the 'Map/Zoom In' and 'Map/Zoom Out' options, or the respective toolbar buttons . 'Zoom In' can be also performed directly on the map surface by drawing a rectangle around the area. This is done by placing the mouse cursor above the area of interest and drawing a rectangle by holding the left mouse button down while moving the mouse cursor across the area. After releasing the left mouse button move it into the rectangle. Once the cursor shape changes to the 'magnifying glass' with a plus sign inside, click the left mouse button. You can cancel the 'Zoom In' action by moving the mouse cursor outside the rectangle and clicking the left mouse when the cursor takes the 'x' shape.

When you start StreetTrek you are likely to expect the main map showing a certain area. To save the current map view port to be used for future program runs click the toolbar button or select the File/Save menu option. You can restore the map view port to the saved state by clicking the toolbar button or selecting the Map/Home menu option.

When you move the mouse cursor across the map and notice the cursor shape changing to , it means that an action can be performed for the object cursor is hovering on. If the cursor is over a vehicle icon, then clicking the left mouse button will open a Detail Map Window for that vehicle. Clicking the right mouse button will produce a Vehicle Edit Form where you can choose the icon image and label. Moving the mouse over a landmark graphic will also change the mouse cursor to . Left mouse click will produce a Landmark Graphic Form where you can change the Landmark graphic image and label.

In addition, whenever the mouse cursor changes to , a balloon with information will appear on the screen for a few seconds. For example, if you move the mouse cursor over a landmark icon, an address balloon will pop up. You can produce a balloon with address information for any point on the map. To do so hold the right mouse button down. A balloon with the closest address will be shown for as long as you keep the right mouse button down.

Locating a vehicle/asset

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To locate a mobile asset select the asset name from a drop-down list box on the toolbar

. If the vehicle/asset icon is within the current map view port a balloon with the current asset information will be shown next to the icon. If the vehicle/asset icon is not within the map bounds, the map will be redrawn with the vehicle/asset icon in the map center. When you run **StreetTrek™** you may notice that some assets icons are plotted semi-transparent and do not have labels. This indicates that the given asset stopped reporting. The degree of transparency depends on the number of missed updates, however the icon will never disappear completely.

Changing Vehicle Name and Icon

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Each vehicle or asset icon is shown on the map with a label on top. You can change the vehicle/asset icon image and the text label. To do so, move the mouse cursor over the vehicle icon and click the right mouse button. On the pop-up window type the desired name into the Name field and select the icon from the drop down Image List.

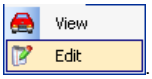
You can add extra graphics by clicking the 'Import' button and locating suitable image files on your hard drive. The 'Open File' dialog you will start with defaults to the 'Graphics' folder in the StreetTrek Application folder. You may find a suitable image in one of the folders there, or you could use your own graphics located anywhere on the hard drive.

For icons representing vehicles you can enter the user-defined Speed Limit. Whenever the vehicle is moving over the user-defined speed limit, the Vehicle Name will be drawn on a pink background. Keep in mind that the Speed Limit you enter may not correspond to the legal speed limit of the area.

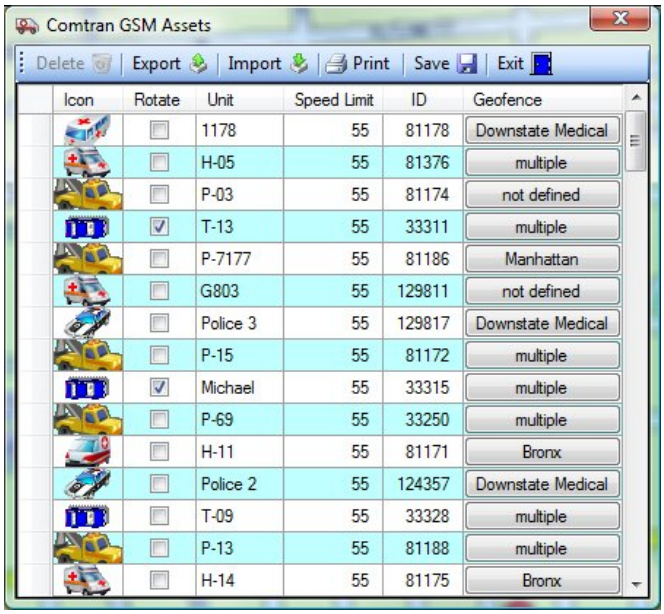
For vehicles you also may choose the icon to be rotated to indicate direction. To make it so, check the 'can rotate' box. Keep in mind that not any image is fit for rotating. 'View from above' images are bet suited for rotation. The criteria for rotating is as follows: the original graphic image should be facing East. StreetTrek graphics collection has 4 built-in car images suited for rotation.

Note:

The exact look of the above form may vary depending on the hardware used for GPS tracking. The above picture corresponds to data collected from a **MOTOTRBO™** base radio. For **MOTOTRBO™** hardware **GPS Update Interval** can be set individually for each radio.

If you need to edit multiple assets - use the Assets/Edit menu option 

. You will be presented with a form listing all your mobile or portable assets with their respective icons, icon labels and speed limits.



Assets Icons are selected from a drop-down list of available vehicle graphics that will appear when you click on the image. Name and Speed are typed in when the respective cell gets edit focus. **Geofence** column is visible only if **Geofence** options are enabled in Telemetry and Special Conditions. Clicking on a button in the **Geofence** column will produce an **Asset Geofences** form for setting up individual **Asset Geofence** configuration. Refer to Geofencing for more details.
To save your changes click the **Save** toolbar button. You can export your current Assets set to an external XML file. This way you can set up your assets on one machine and import the same settings on other machines.

Telemetry and Special Conditions

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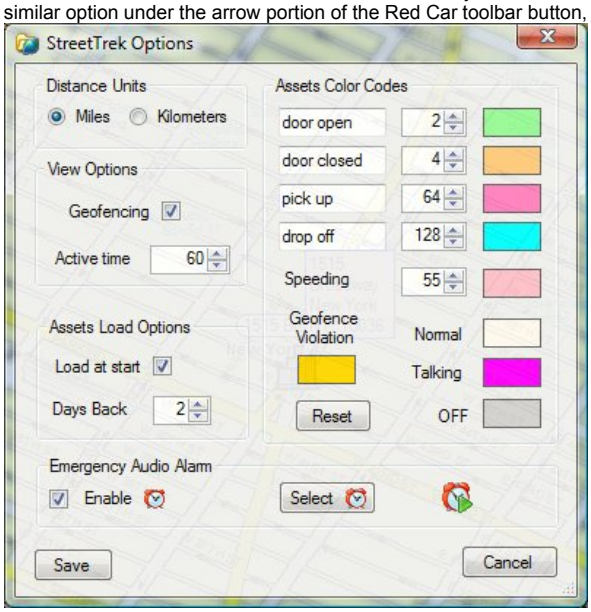
StreetTrek™ offers **Visual and Sound Effects** to indicate the status of the assets being tracked. For example, assets exceeding a **user-selected speed limit** can be marked with labels on a pink background. Labels on a gray background could mark assets that were turned off. Similarly, telemetry information received from the tracked assets could be indicated by user-selectable asset label color. The form shown below opened via menu Setup|Options or a similar option under the arrow portion of the Red Car toolbar button, allows the user selecting various settings to customize the way assets are displayed



The colored rectangles on the right represent the color of the asset label corresponding to either a telemetry value entered into a numerical up/down controls next to them, or a fixed asset condition. Each color can be adjusted by clicking the respective field with the left mouse button. This would produce a Standard Color Dialog where the user can select a desired color. Telemetry values in the numeric up/down controls should be chosen to match received telemetry data, which can be hardware-specific. Received telemetry values can be viewed in Vehicles/Assets List 'Telemetry' column. The telemetry column of the Vehicles/Assets List is hidden by default, you may need to make it visible. Refer to the Vehicles/Assets List topic for details.

Each telemetry value and matching color code can be associated with a friendly name entered by the user into a text box to the left of the numeric telemetry fields. These aliases will be used in reports. The default telemetry codes are I/O 1, I/O 2, I/O 3, I/O 4. It makes sense to replace these default codes with text matching real conditions. The 'Normal' condition indicates that GPS data is not associated with any telemetry or special conditions. "Talking' applies to communications hardware 'Push To Talk' (PTT) condition. Not every type of hardware supports PTT.

Emergency Transmissions are indicated by flashing asset labels and optionally by a sound played through the PC speakers. If the tracked asset is a two-way radio and the radio operator activated the **Alarm** switch, the label of the respective asset icon will start blinking. It will do so until the **StreetTrek™** user

clicks the icon. You can make **StreetTrek™** indicate an alarm condition by playing either a built-in **media file** or a sound clip your choice. To switch from the default sound clip to a sound clip of your choice click the '**Select**' button and locate a sound file in **WAV**, **MIDI** or **MP3** format.

Radio buttons inside the **Distance Units** group box determine speed and distance unit measure in Miles or kilometers.

Controls within the **View Options** group box determine how assets are shown on the map. The **Active Time** numeric control sets the maximum time in minutes since the last update the Asset is still considered to be **active.** Setting **Active Time** to a non-negative value will produce a dimming effect for non-active assets. Assets that did not report within the **Active Time** threshold will be gradually phased out. Setting **Active Time** to -1 will turn this feature off. The default setting for **Active Time** is off.

Geofencing check box enables/disables **Geofencing** menu options and features. The default **Geofencing** setting is **off**. If you intend using **Geofencing** features make sure to check this box. Note the **Geofence Violation** color selector visible when **Geofencing** is checked. If the asset is in violation with a **Geofence,** its label will alternate between the **Geofence Violation** color and the color representing other conditions. Refer to the **Geofencing** topic for more details.

Geofencing

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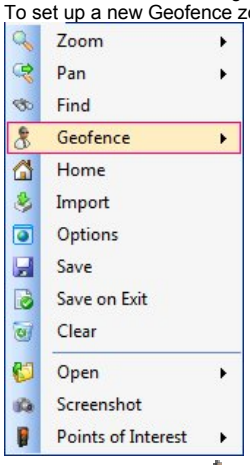
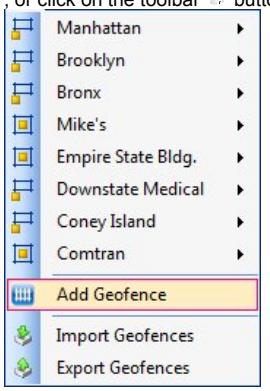
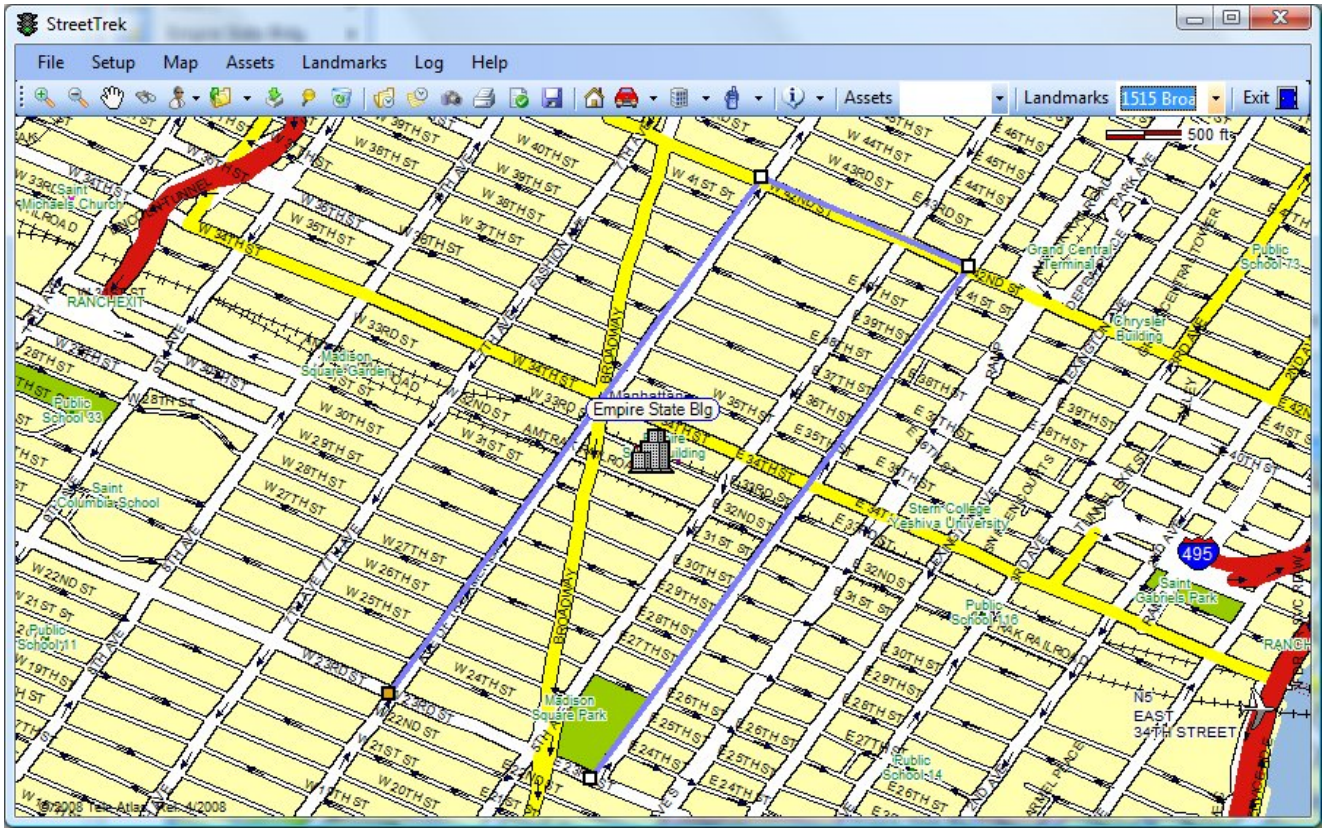
StreetTrek™ implements most common Geofencing - visual notification of an asset within a certain predefined area, or outside a certain predefined area. Geofencing is not enabled by default. To make **Geofencing** controls visible make sure to check the **Geofencing** check box in **StreetTrek™ Options.**
StreetTrek™ allows setting up to 32 Geofences.
To set up a new Geofence zoom the map to the area and locate the **Geofence** drop down options under **Map** menu



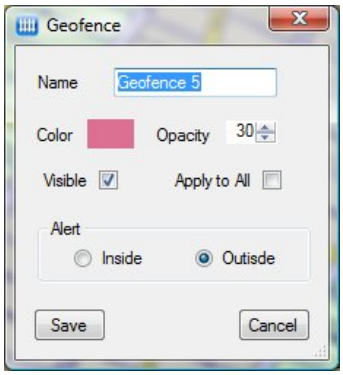
, or click on the toolbar button. On the drop-down submenu select any **Add Geofence** option with an icon.



Move the mouse cursor to the area you will be defining and click the left mouse button. This would paint a small quadrangle representing the first vertex of the geofence polygon. Repeat the procedure to define polygon vertices.

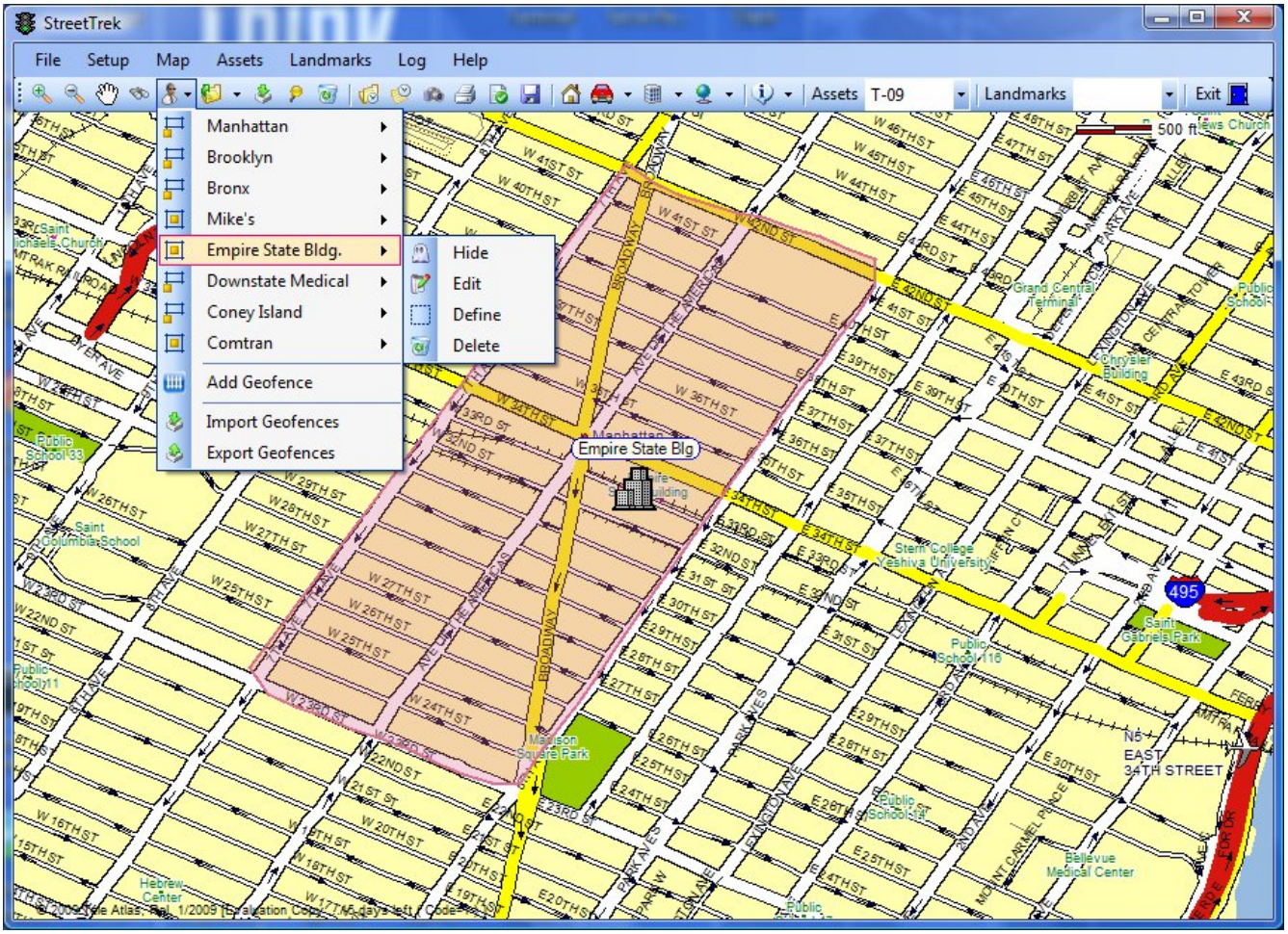


Click on the first vertex to finish. This should produce a Geofence pop-up form like the one below.

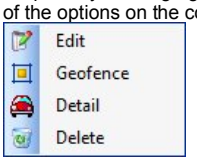


Geofence Setup

On the **Geofence** form type the name of the new Geofence. If you want the area to be shaded, select the color and the opacity level and check the **Visible** box. If this Geofence should be in effect for all assets within your fleet, check the **Apply to Al**l box. Select if the **Alert** condition either **Inside** to be notified of assets entering the area, or **Outside** for alerts when assets leave the area. Finish by clicking the **Save** button. Once the Geofence has been defined the menu option text you started with will change to the **Geofence Name** you selected, and the option will get a submenu with options to hide, modify, re-define or delete the Geofence as needed.

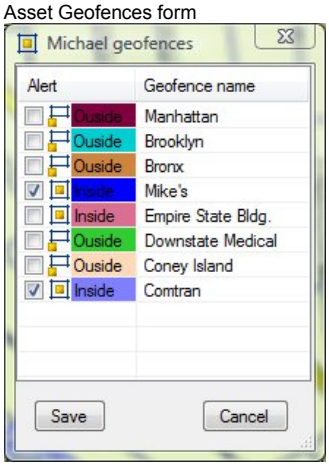


Note the icons of the Geofence menu options indicating whether a Geofence is an **Inside Alert** or an **Outside Alert**. Each defined Geofence can be hidden/shown, edited, re-defined or deleted via respective sub-menu options.
Next step is to assign Geofences to mobile and portable assets. You may skip this step if you selected **Apply to All** option when saving the Geofence. In that case all assets in your fleet will have identical geofences. Otherwise, each asset can be assigned an individual combination of Geofences. The most simple way to assign geofences for an asset is to locate an asset on the map and click on it with the right mouse button. If **Geofencing** is enabled, then one of the options on the context menu will be **Geofence.**



Selecting **Geofence** would produce a form listing all existing geofences.

Asset Geofences form



The check marks indicate geofences in effect for the asset, and the **Alert** cell text and icon indicate whether the **Alert Condition** is for entering the geofence (**Inside)** or leaving the geofence (**Outside**). The row color indicates the shading color used to paint the geofence on the map if the **Visible** option

was selected in the Geofence Setup form. You can make changes to the asset geofences by checking or unchecking check boxes in the **Alert** column. The changes you make will be in effect only if you close the form via the **Save** button.

Note that only defined Geofences will be listed when you open the **Asset Geofences** form. **StreetTrek™** allows to define up to 32 geofences.

StreetTrek™ geofences can be saved to a file in XML format via **Export** geofence submenu option. If you have multiple **StreetTrek™** installations, you can define geofences on one machine, export geofences to a file, copy the file to a folder of your choice on other machines, and **import** geofences via **Import** geofence submenu option.

Detail Windows

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At program start StreetTrek shows the Main Window . You can open additional maps 'dedicated' to individual vehicles. To do so, move the mouse cursor over the vehicle icon and click it.

A smaller window centered around the vehicle will pop up. Unlike the main map, the Detail Window will 'follow' it's vehicle and show vehicle status on the caption bar. If the vehicle moves beyond the Detail Window boundaries, the window will automatically change it's map view port centered around the vehicle icon. Detail Windows can be individually re sized by dragging window borders. You can also pan, zoom in/zoom out the Detail Map using the toolbar buttons or navigate directly on the map as you would on the Main Window. Detail Window size, position, and zoom level will be saved and used the next time you open the Detail Window for the same vehicle. You can have multiple Detail Windows simultaneously open. If you use a dual monitor system, you could place several Detail Windows onto a secondary display while keeping the Main Window on the main display.

If you 'loose' the vehicle icon vehicle navigating the Detailed Map, you can center the map around it's vehicle by clicking the toolbar button. You don't have to do this if the vehicle moved outside the map boundaries. In that case, the map will center itself automatically.

Raster Maps

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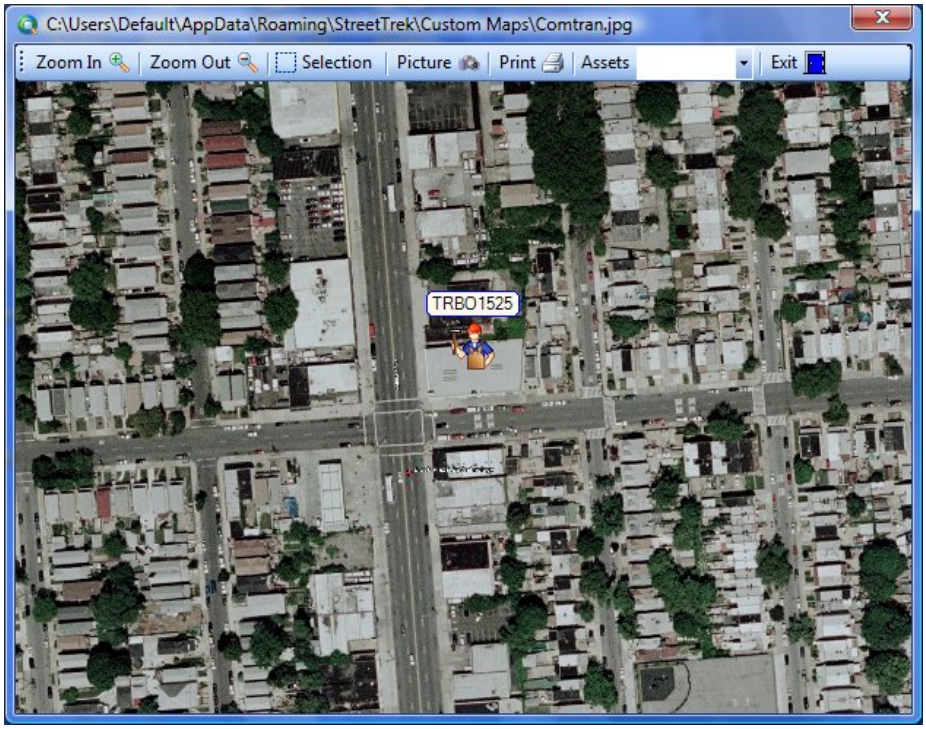
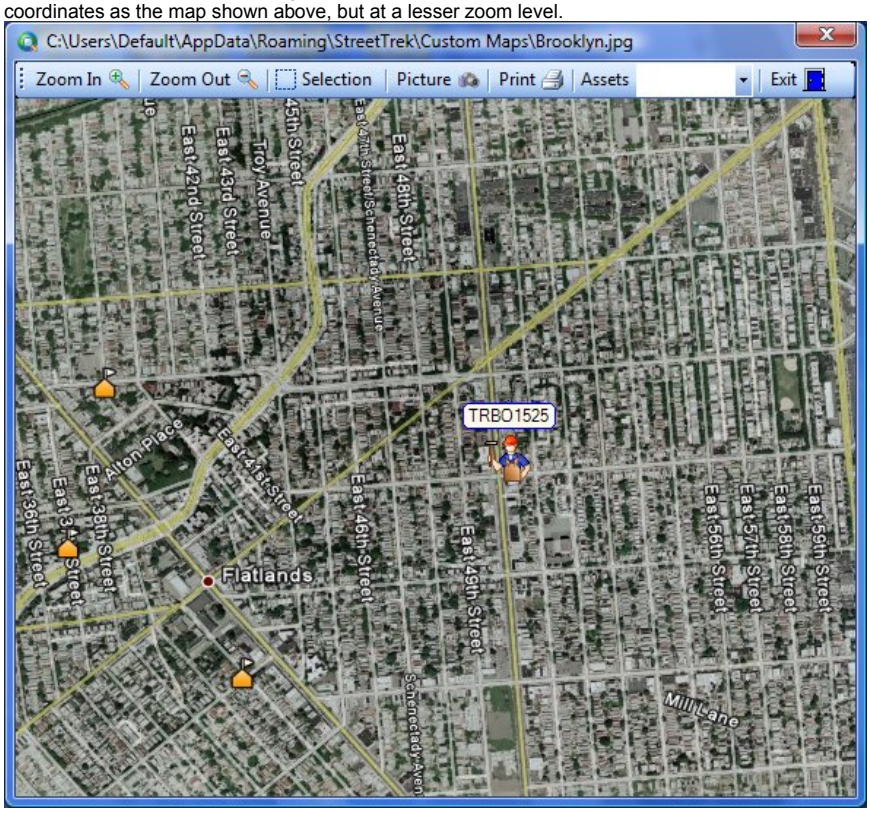
StreetTrek can import **Raster Maps**. You can use this option to supplement installed vector maps. A **Raster Map** is basically an image with known corner coordinates. StreetTrek requires raster image file to be accompanied by a file in Google KML format. The KML file should contain the full path to the image file and geographic coordinates in decimal degrees in accordance with **Google™ KML File Format Specification**. To open a Raster Map Select File|Open or Map|Open menu option or click the toolbar button. This will produce a Windows File Open Dialog from where you navigate to a file to open. It is recommended that you place your Raster Maps into the StreetTrek Application Data Folder, which is the default start directory for the File Open Dialog, however, you can place your raster maps into any folder of your choice. Upon selecting a map file StreetTrek will open a form showing your raster map with your mobile or portable assets plotted onto it.



Navigating raster maps is quite similar to navigating database-generated vector maps. The only difference is that a raster map can't be zoomed out beyond the boundaries of the loaded image. You can open several raster maps. For example, the screenshot below shows a Raster Map centered around the same coordinates as the map shown above, but at a lesser zoom level.



After a Raster Map was opened for the first time, it will be added as a submenu option File|Open and Map|Open menu options that will be also available at subsequent program runs as long as files they point to still exist. Next time you want to open the same map you can do so directly instead of using the File Open Dialog.

Vehicles/Assets List

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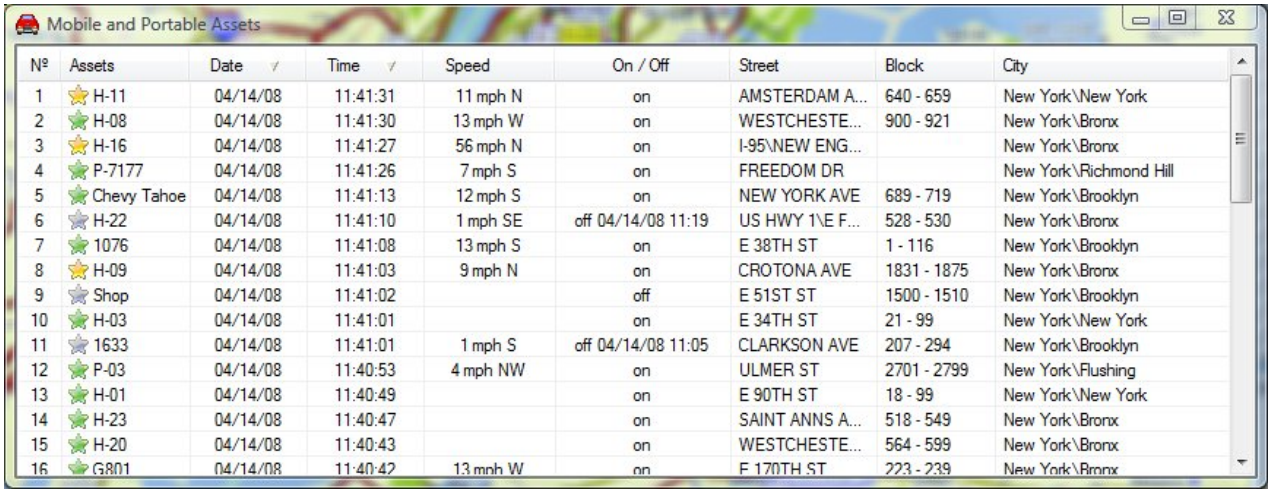
Mobile Assets List provides a table form view of your fleet. To open the Mobile Assets List select the Assets/View menu option or click the toolbar button.



№	Assets	Date	Time	Speed	On / Off	Street	Block	City
1	H-11	04/14/08	11:41:31	11 mph N	on	AMSTERDAM A...	640 - 659	New York\New York
2	H-08	04/14/08	11:41:30	13 mph W	on	WESTCHESTE...	900 - 921	New York\Bronx
3	H-16	04/14/08	11:41:27	56 mph N	on	I-95\NEW ENG...		New York\Bronx
4	P-7177	04/14/08	11:41:26	7 mph S	on	FREEDOM DR		New York\Richmond Hill
5	Chevy Tahoe	04/14/08	11:41:13	12 mph S	on	NEW YORK AVE	689 - 719	New York\Brooklyn
6	H-22	04/14/08	11:41:10	1 mph SE	off 04/14/08 11:19	US HWY 1\E F...	528 - 530	New York\Bronx
7	1076	04/14/08	11:41:08	13 mph S	on	E 38TH ST	1 - 116	New York\Brooklyn
8	H-09	04/14/08	11:41:03	9 mph N	on	CROTONA AVE	1831 - 1875	New York\Bronx
9	Shop	04/14/08	11:41:02		off	E 51ST ST	1500 - 1510	New York\Brooklyn
10	H-03	04/14/08	11:41:01		on	E 34TH ST	21 - 99	New York\New York
11	1633	04/14/08	11:41:01	1 mph S	off 04/14/08 11:05	CLARKSON AVE	207 - 294	New York\Brooklyn
12	P-03	04/14/08	11:40:53	4 mph NW	on	ULMER ST	2701 - 2799	New York\Flushing
13	H-01	04/14/08	11:40:49		on	E 90TH ST	18 - 99	New York\New York
14	H-23	04/14/08	11:40:47		on	SAINT ANNS A...	518 - 549	New York\Bronx
15	H-20	04/14/08	11:40:43		on	WESTCHESTE...	564 - 599	New York\Bronx
16	G801	04/14/08	11:40:42	13 mph W	on	E 170TH ST	223 - 239	New York\Bronx

By default the Vehicles/Assets List sorts by Date/Time Descending. You can change the sorting order to Ascending by clicking on the Date or Time column header, or sort by Asset Name or by Speed by clicking on the respective column header. The sorting type (Ascending/Descending) is indicated by an arrow icon in the column header to the right of the column caption.

Vehicles/Assets names in the 'Assets' column are listed with an Icon indicating the Vehicle/Asset status. The icon legend is as follows:

Ignition is on.

Ignition is off.

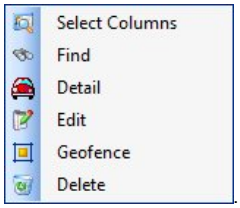
The vehicle exceeds the user-defined speed limit.

The vehicle operates under special conditions (emergency lights, door open, lift switch etc...).

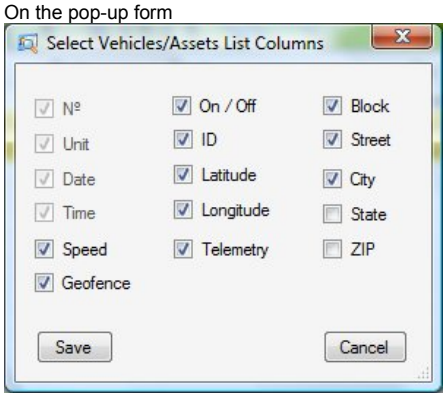
No GPS data available.

No GPS data available condition most often occurs when the vehicle is in a covered area, like underpass or underground garage. You may want to check the On/Off column. On/Off data is not directly related to GPS. It is normally generated by hardware inputs like Ignition in a vehicle or On/Off switch on a radio.

You can select which columns should be shown. To do activate the context menu by holding the right mouse button down, and select the top option



On the pop-up form



check the column names you want to keep and uncheck those you don't want, then click the **Save** button.

Note the **Geofence** check box on the above form and **Geofence** menu option on the context menu above it. Both these options are visible only if **Geofencing** is enabled. Refer to Telemetry and Special Conditions topic for information how to enable Geofencing. If **Geofencing** is enabled and Geofences are defined, rows in the Mobile and Portable Assets form that belong to assets in Geofence violation will be highlighted by yellow (gold) background color.

Adding Custom Pushpin

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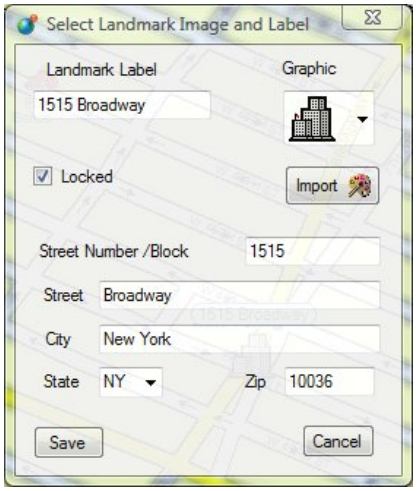
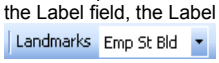
You can place onto the map graphics representing static (not moving objects). It could be a location of your center office, or your customers locations, or landmarks to ease map navigation. To add a pushpin, make sure the place for the pushpin or Landmark is within the current map view port. Select the Map/Mark menu option or click on the toolbar button. The mouse cursor will change shape to 'Pushpin'. Move the mouse cursor to the place of your interest and click the left mouse button. A pushpin will appear on the map surface. You can drag this pushpin on the map surface by placing a mouse cursor on it and holding the left mouse button down. Next step is to provide the pushpin with a name and change the graphic from the default. To do so click on the pushpin with the left mouse button. A pop-up dialog, like the one below



will be shown. Enter the name (label) and select the desired graphic from the drop-down box. The address fields will be automatically filled in with the closest address match for pushpin coordinates; make changes if you know the exact address.

You can add extra graphics by clicking the 'Import' button and locating suitable image files on your hard drive. The 'Open File' dialog you will start with defaults to the 'Graphics' folder in the StreetTrek Application folder. You may find a suitable image in the 'Landmarks' folder there, or you could use your own graphics located anywhere on the hard drive.

You may check the Locked box or leave it for later. Locked Landmark can't be dragged. You can change this setting whenever you need to adjust the Landmark position or lock the position as final. Finish by pressing the 'Save' button. The pushpin now will show the image you selected and if you entered the Label field, the Label will be drawn above the Landmark image and the Label text will be also shown in the Drop Down Landmarks Box



on the Toolbar. You can use the toolbar Landmarks Drop Down box to quickly navigate to the Landmark. Labeled Landmarks will be saved when StretTrek closes and loaded at future program runs. Landmarks with empty labels are not saved.

To remove a custom pushpin (Landmark) click it using the left mouse button and on the Landmark pop-up dialog click the 'Remove' button'.

Another way of managing user-defined landmarks is to open a separate form with a table listing all landmarks. To do so, click the Main Window toolbar button. You will be presented with a window showing a table listing all user-defined landmarks. You can edit Landmark label and address fields. This makes sense when there are more then just a few user-defined-defined landmarks and looking them up on the map becomes cumbersome.

Clearing Vehicle Icons

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If for whatever reason you need to remove all vehicle icons from the map use the Map/Clear menu option or click the toolbar icon. Vehicle icons will be removed from the map, but not permanently deleted. When new AVL data is received vehicle icons will be plotted onto the map with previously selected image and label. You can 'reload' removed vehicle icons by clicking the toolbar button.

Locating Address

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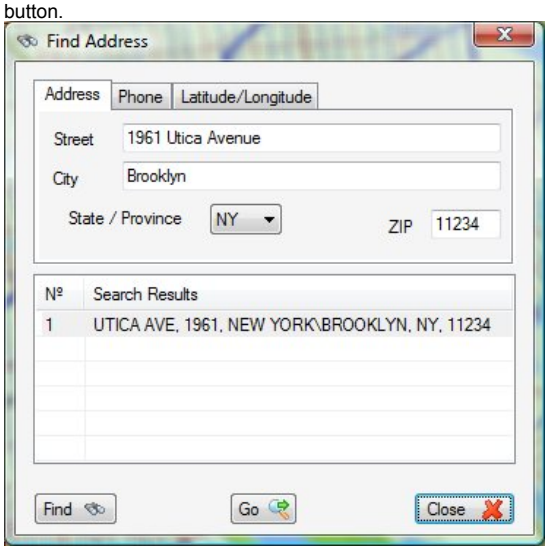
StreetTrek allows to find and optionally mark (via pushpin) a Street Address, State, Postal Code (ZIP), phone area code and phone exchange number, geographical coordinates.

To start location search select the Map/Find menu option or click the toolbar button. To find an address fill in fields on the Address tab and click the Find button.



Address search will be permitted only if either State and City or the Zip code are filled in. Search for Canadian Postal Codes is limited to the first 3 characters. USA Postal Codes require 5 digits. The search results will be listed in a table. There can be more then one result if the address information is incomplete. For example, on the above form, if you remove the street number and leave only street name then the search will return 60 results listing each block along Utica Avenue in Brooklyn NY. If you leave the City and State fields blank and fill in the ZIP code 11234 the search will return 17 results listing each block along Utica Avenue within the 11234 ZIP code area. To plot an address search result onto the map highlight the Search Result row and click the

'Go' button. A default Landmark pushpin will be placed onto the map at the address coordinates and a balloon with the address information will be shown next to the pushpin for several seconds. If the address location is outside the current map view port, the map will be automatically centered to coordinates of the address. By default, all search address push pins are temporary - they have no label attached. To make a permanent pushpin or Landmark, click with the left mouse button and fill in the label field on the pop up dialog. For more details refer to the Adding Custom Pushpin topic.

To find the State (Province) and City for a phone number, select the Phone tab and enter the area code plus the first 3 digits of the phone number (phone exchange number). StreetTrek will perform search within the Phone Exchange Database for the physical location matching these numbers.

To pinpoint specific geographical coordinates, select the Latitude/Longitude tab and enter the Latitude and Longitude, then click the 'Find' button. The search result will be shown as a closest address match. If you click the 'Go' button, the main map will be zoomed to coordinates you entered, and place a pushpin at there.

Points of Interest

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StreetTrek allows importing Points of Interest markers from external files. Point of Interest is similar to a Land Mark, except that when shown on the map it has no label above it. StreetTrek Points of Interest menu and toolbar upper level options are marked by icon. The most common Point of Interest, as applies to Vehicle Tracking, can be a Red Light Camera. Points of Interest databases are most often distributed in comma-delimited format (CSV) with records having Longitude in the first field and Latitude in the second field. To import a Points of Interests File Select menu option 'File|Points of Interest|Import'. StreetTrek Toolbar has similar options under the Landmarks split button. After Points of Interest are loaded they can be hidden or shown via 'Points of Interest' sub-menu. You can also change Point of Interest Icon and 'tip' label, or add you own Points of Interest and save them to an external file.

Updating StreetTrek

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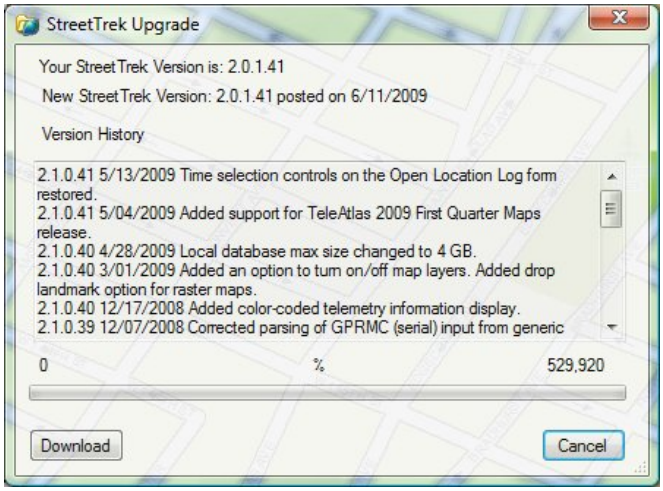
StreetTrek posts regular updates available for download from StreetTrek web site www.streettrek.com . Updates availability and installation are done while StreetTrek is running. To check for available updates select the Help/Check for Upgrades menu option

A pop up dialog will show your current StreetTrek Version and, after a brief delay, the last available upgrade.


StreetTrek Upgrade
Your StreetTrek Version is: 2.0.1.41
New StreetTrek Version: 2.0.1.41 posted on 6/11/2009
Version History
2.1.0.41 5/13/2009 Time selection controls on the Open Location Log form restored.
2.1.0.41 5/04/2009 Added support for TeleAtlas 2009 First Quarter Maps release.
2.1.0.40 4/28/2009 Local database max size changed to 4 GB.
2.1.0.40 3/01/2009 Added an option to turn on/off map layers. Added drop landmark option for raster maps.
2.1.0.40 12/17/2008 Added color-coded telemetry information display.
2.1.0.39 12/07/2008 Corrected parsing of GPRMC (serial) input from generic
0
%
529,920
Download
Cancel

If the new version is the same or later, then the 'Download' button will be enabled. The read-only text box should list recent updates. To download the upgrade click the 'Download' button. The progress of the download will be indicated by the progress bar and can be interrupted by clicking the 'Cancel' button. Upon the completion of the download the caption of the 'Download' button will change to 'Install'. Clicking 'Install' will cause StreetTrek to close and a following window will pop up window:

At this point you can either finish the upgrade procedure by clicking the 'Install' button, or click 'Cancel' to keep your current StreetTrek version. Selecting 'Install' will result in overwriting existing StreetTrek program files with newer versions, and/or adding new files, if any. In either case, the Upgrade pop-up will close. If you clicked 'Install' the new StreetTrek version should be launched automatically. If **StreetTrek™** fails to start automatically, start it manually from the desktop shortcut or from the Programs menu and verify the build number (click on the main portion of the button).

Internet Connection

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StreetTrek (Client) receives data from StreetTrek Server over the Internet. The connection to StreetTrek Server is initiated automatically using credentials (User Name and Password) used during the previous session. Internet connection status is indicated by the Traffic Light Icon in the upper left corner of the main program window. The yellow light indicates connection was not yet established. All Lights traffic icon indicates StreetTrek is receiving and processing data from the server. Red Light traffic icon indicates a dropped connection. Changes in the connection status normally do not require any user intervention. At the program start the main window icon should be Yellow Light and change within few seconds to All Lights (or busy) and stay 'busy' for several seconds (longer for larger fleets), while StreetTrek receives and processes most recent vehicles positions. After that the icon should become Green Light and occasionally flash 'busy' when a vehicle update is received. Connection to the StreetTrek Server may sometimes drop, especially if your PC is on a wireless network. StreetTrek will attempt to re-connect in 25 seconds intervals. You don't have to do anything.

Login

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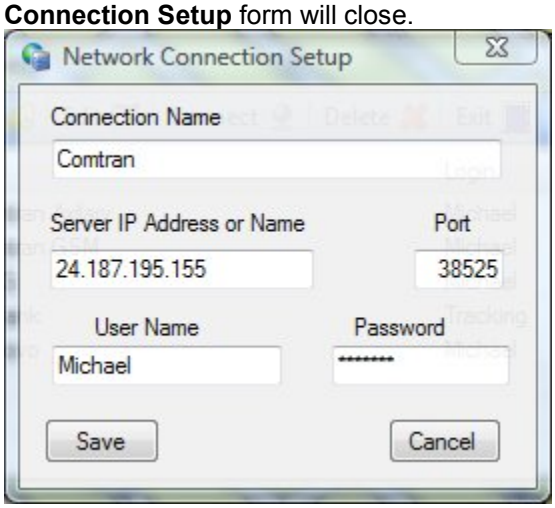
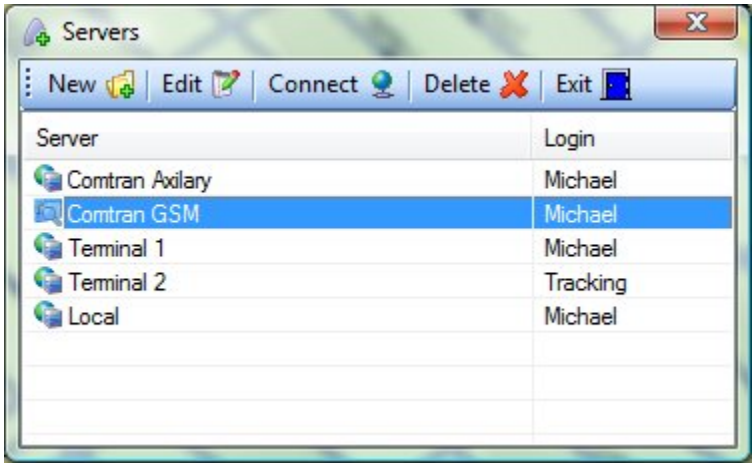
StreetTrek™ (Client) can receive data from StreetTrek™ Server over Local or Wide Area Networks (Internet). Before you can connect to the StreetTrek™ Server you have to enter the Server IP Address or Machine Name (LAN), **TCP Port** number and **Login Credentials** - user name and password. To do so click the toolbar button or select menu **Setup|Network** option. If you never done this procedure during this or previous sessions, you will presented with a form like the one below, except that most fields will be blank. Enter your **Server IP Address** or, if StreetTrek Server is on the same network, Server **Machine Name**, **Server TCP Port** number (default is 9001) **user name** and **password**. User name and password for a given server are assigned by a **StreetTrek Manager** utility. If you run your own servers you should know them, otherwise contact your service provider. **Connection Name** field should describe your connection. The default name is 'Default Connection'. To finish **Network Connection Setup** click the '**Save**' button. **StreetTrek™** will test the connection and if successful, the **Network Connection Setup** form will close.



The **Connection Name** you entered will now appear as a submenu option for menu **Setup|Network** and also as Toolbar **Network** submenu option. The highlighted submenu graphic indicates the currently **Active Connection**. If you move the mouse cursor over this new submenu option it should read 'Disconnect from + your connection name' indicating that clicking this option at this time would disconnect StreetTrek from the server. To connect again select the same submenu option. When you close StreetTrek™, the **Active Connection** will be automatically terminated and the same connection will be automatically initiated at the next program run. If you closed the connection manually or it was terminated during the program run and there was no **Active Connection** upon StreetTrek exit, then no connection will be established when you start **StreetTrek™** next time. However, the Setup|Network menu option will contain a submenu listing the previously existing connection(s). To connect to the server simply select the submenu option with the connection name of your choice.

StreetTrek™ can connect to multiple servers (one at a time). To add another connection click toolbar button or select menu **Setup|Network** option. This time you will be presented with a form listing all existing connections.



To add a new connection click the '**New**' toolbar button and perform the **Network Connection Setup** described above. You can make changes to an existing Server Connection by clicking the '**Edit**' toolbar button. You can delete an existing Server Connection by clicking the '**Delete**' toolbar button. Note, that you can't edit or delete the currently **Active Connection** - the respective toolbar buttons are disabled if you select an **Active Connection** from the Servers list. All changes you made while this form was open will be reflected in respective StreetTrek menu options once the **Servers** form is closed.

Note: the **Network** menu and tool strip options may function differently when MOTOTRBO™ hardware is plugged in or when you turn on **MOTOTRBO™** radio while it's USB cable is already plugged in, and there is no Active Server Connection. In that case StreetTrek will automatically configure it's menu options to match the hardware configuration.

Note: **MOTOTRBO™** is a registered trademark of **Motorola, Inc**

Firewall

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StreetTrek Client can and should run behind a firewall. Hardware firewalls, like those integrated within routers, should not require any special adjustments. Software firewalls, like Windows Firewall, have to be setup to accept exceptions, which is a default. If you get a Windows Security Alert from Windows Firewall,

Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: StreetTrek Client
Publisher: StreetTrek.com
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

make sure the name of the program is StreetTrek Client and Publisher is StreetTrek.com, and click the 'Unblock' button. If you have firewall related problems consult your network administrator or contact your StreetTrek representative at info@streettrek.com or call toll free (866) 531-7676.

Local Serial Ports

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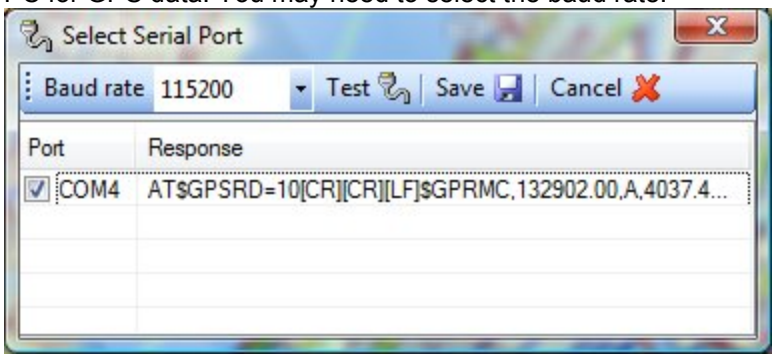
StreetTrek can obtain vehicles/assets positions over or from a directly connected hardware. For example, if you are traveling in a vehicle equipped with a GPS modem, you could hook the modem's serial output (provided it has one) to a laptop running StreetTrek, and locate your own position. To do so, select the Setup|Local Ports|Serial option.
It will produce a pop-up form like the one shown below. StreetTrek will examine all Serial Ports available on the PC for GPS data. You may need to select the baud rate.



If one of the check boxes is already checked click the OK button. The form will close and your current position will be plotted onto the map, and labeled 'Me' by default. Your position will be updated in 10 seconds intervals.
If none of the check boxes was automatically checked verify that your GPS device is powered up and connected to the computer. Next, click the 'Test' button. The text appearing in the Response column should provide a clue. The text shown in the third row of the table in the picture is the typical response of an Enfora™ MT-GL series GSM/GPRS modem. You can 'force' StreetTrek to 'poll' the Serial Port of your choice by checking the respective check box.

Warning: under no circumstances the above described actions should be performed by the driver of a moving vehicle. They should be done either before starting the trip, or during a stop.

To stop polling the Serial Port, select the Setup|Local Ports|Serial menu option and close the 'Select Serial Port' form clicking the 'Cancel' button. The current status of the Local Port (open/closed) is indicated by the checked status of the Setup|Local Ports menu option. When it is checked (the serial icon is shown within a black rectangle) then the PC did open a serial port and issues a polling command in 10 seconds intervals. It makes sense turning off the Local Serial Port option when you do not need it anymore.

MOTOTRBO Settings™

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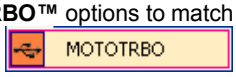
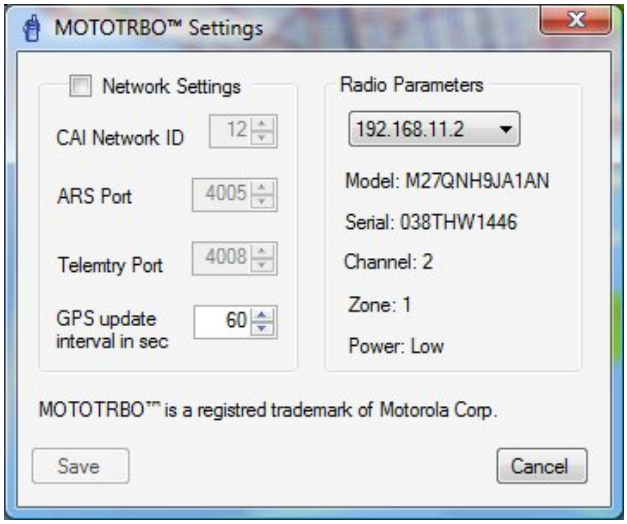
StreetTrek supports **Motorola MOTOTRBO™** series radio models with GPS option. StreetTrek will automatically detect **MOTOTRBO™** hardware provided **MOTOTRBO™** radio USB drivers are installed and the base radio is on, it's USB cable is plugged in, and StreetTrek is not connected to a server. The visual clue is the tool strip **Network** button changing to **Local**. You may need to select or change **MOTOTRBO™** options to match radio programming and your requirements. To do so select Setup|Local Ports|MOTOTRBO menu option 

or click on the tool strip button. You will be presented with a pop-up form like the one shown below.



Note: **MOTOTRBO™** menu options are visible only when **MOTOTRBO™** hardware is on and plugged into at least one PC **USB** port.

The drop-down combo box under 'Radio Parameters' lists the IP addresses provided by the attached MOTOTRBO™ radios acting as DHCP Servers. StreetTrek allows multiple **MOTOTRBO™** base radios simultaneously connected to several USB ports. You have to make sure that each **MOTOTRBO™** base radio is programmed with a **unique IP Address**. For multiple base configurations we recommend changing the **third octet** of the **IP Address** for each additional base. For example, if the first base **IP Address** was programmed 192.168.10.1, the next base could get 192.168.11.1, next 192.168.12.1 and so on. Refer to the **MOTOTRBO™ CPS** manuals for detailed information on radio programming. Information shown in the Radio Parameters group matches the selection in the IP Address Drop/Down box. If you have multiple bases attached, then selecting a different IP address will show respective radio parameters.

Note: the above considerations apply only to **MOTOTRBO™** radios to be used as bases for a PC running **StreetTrek™.** Radios sending GPS do not require unique IP Addresses.

CAI Network ID is **MOTOTRBO™** parameter programmed into **MOTOTRBO™** radios. **CAI** abbreviation stands for **Common Air Interface**. The default value for **CAI Network ID** is 12. You can change it to match your radio programming.

ARS Port is the **UDP Port** number for **MOTOTRBO™ Automatic Registration Service** (ARS).
Telemetry Port is the **UDP Port** number for **MOTOTRBO™ Telemetry Services.**

CAI Network ID and **ARS** and **Telemetry UDP** port numbers are programmed into **MOTOTRBO™** radios. It is generally not recommended using values other then the default. To prevent accidental changing, these fields are grayed out until you check the '**Network Settings**' check box.

GPS Update Interval in seconds is the desired time interval between GPS updates. **MOTOTRBO™** Radio Manual recommends 4 minutes (240 seconds) between updates and cautions against lowering them below 60 seconds. StreetTrek **MOTOTRBO™** Settings Form allows entering shorter (down to 20 seconds) update intervals for testing purpose. Keep in mind that shorter update intervals translate into more radio traffic and less radio battery life.
The **GPS Update Interval** entered here will be applied to **MOTOTRBO™** radios registering with **StreetTrek™** for the **first time**. **StreetTrek™** stores the **GPS Update Interval** for each radio, and a **GPS Update Interval** of a particular radio can be changed independently of the global **GPS Update Interval** entered here. If you need changing **GPS Update Interval** for each previously registered radio, check the **Apply to All** box.

Any changes you made on the above form are applied only when you close the form using the '**Save**' button. If you changed the **CAI Network ID**, or **ARS Port**, the changes will be in effect only after you restart StreetTrek.

Note: **MOTOTRBO™** is a registered trademark of **Motorola, Inc**.

Troubleshooting

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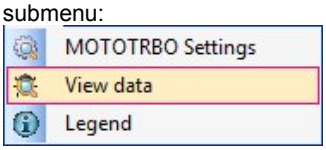
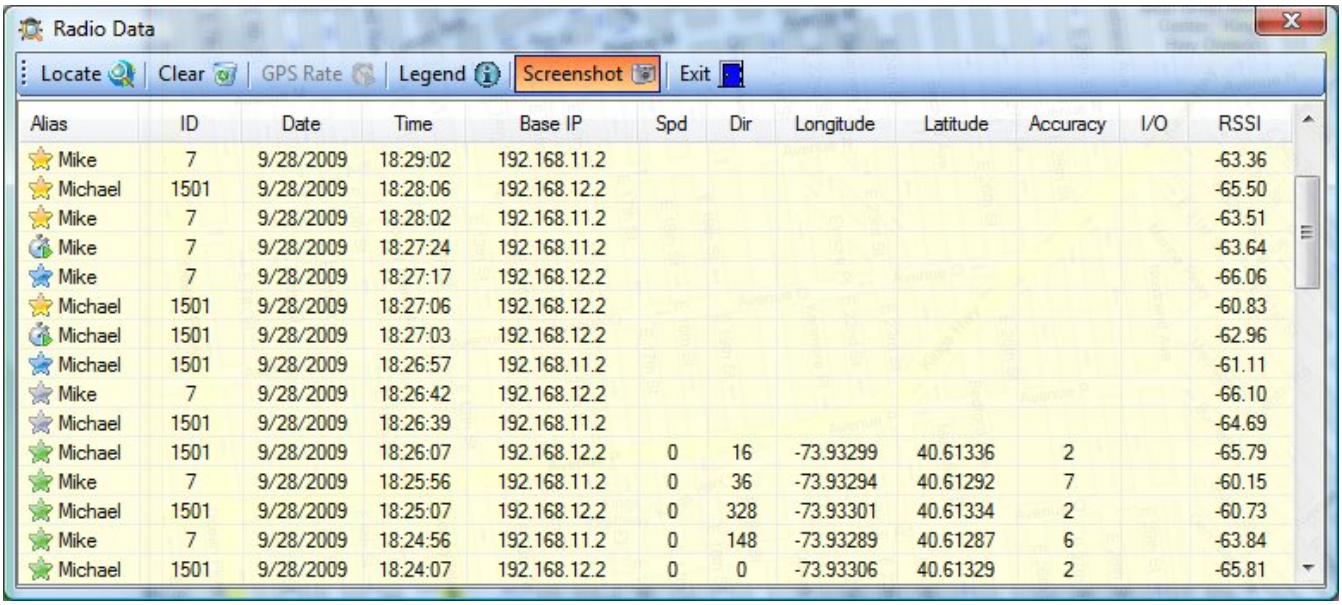
Getting **GPS data** from **MOTOTRBO™** hardware may require some troubleshooting. Due to the constraints of **MOTOTRBO™ Location Services Architecture** a **GPS-capable radio** will send **GPS** only after getting an **Over the Air** instruction issued by a **GPS-tracking** application like **StreetTrek™**. There is a fair chance that when you run **StreetTrek™** with **MOTOTRBO™** for the first time you will be looking at a map with no Asset icons. An Asset icon is plotted onto the map only if **StreetTrek™** received GPS data with valid coordinates. There could be various causes for an Asset icon not shown on the map. For example, a radio might be programmed incorrectly, or not acquired GPS lock. To assist the system operator with troubleshooting **StreetTrek™** offers a Diagnostics **View Data** option under the toolbar button. Moving the mouse cursor over the toolbar button should pull down a submenu:

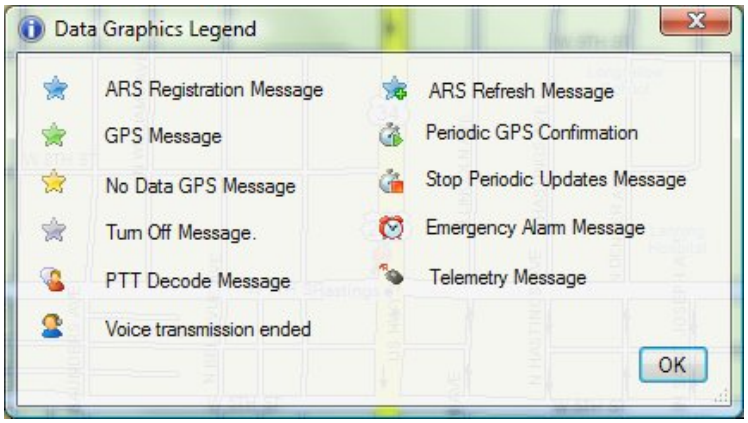


Selecting **View Data** would produce a **Radio Data** form showing data received from the base radio(s).



Alias	ID	Date	Time	Base IP	Spd	Dir	Longitude	Latitude	Accuracy	I/O	RSSI
Mike	7	9/28/2009	18:29:02	192.168.11.2							-63.36
Michael	1501	9/28/2009	18:28:06	192.168.12.2							-65.50
Mike	7	9/28/2009	18:28:02	192.168.11.2							-63.51
Mike	7	9/28/2009	18:27:24	192.168.11.2							-63.64
Mike	7	9/28/2009	18:27:17	192.168.12.2							-66.06
Michael	1501	9/28/2009	18:27:06	192.168.12.2							-60.83
Michael	1501	9/28/2009	18:27:03	192.168.12.2							-62.96
Michael	1501	9/28/2009	18:26:57	192.168.11.2							-61.11
Mike	7	9/28/2009	18:26:42	192.168.12.2							-66.10
Michael	1501	9/28/2009	18:26:39	192.168.11.2							-64.69
Michael	1501	9/28/2009	18:26:07	192.168.12.2	0	16	-73.93299	40.61336	2		-65.79
Mike	7	9/28/2009	18:25:56	192.168.11.2	0	36	-73.93294	40.61292	7		-60.15
Michael	1501	9/28/2009	18:25:07	192.168.12.2	0	328	-73.93301	40.61334	2		-60.73
Mike	7	9/28/2009	18:24:56	192.168.11.2	0	148	-73.93289	40.61287	6		-63.84
Michael	1501	9/28/2009	18:24:07	192.168.12.2	0	0	-73.93306	40.61329	2		-65.81

Each row in the above table represents a decoded data message. The message type is indicated by an icon in the left most cell. Note that only data messages represented by a **Green Star** icon will translate into an Asset icon plotted onto the map. Messages represented by a **Yellow Star** icon have no GPS coordinates and will not be reflected on the map. Rows starting with a **Blue Star** icon represent **ARS** messages. **ARS** messages carry no GPS information and are not reflected on the map, however **ARS (Automatic Registration Service)** is an essential component of **MOTOTRBO™ Data Services.** Rows starting with an icon represent a response to a **Periodic Location Update Request.** In essence, this message indicates that a radio received an application (**StreetTrek™)** request for a **Periodic Location Update** and will start sending GPS at the rate specified. To find out the meaning of each icon move the mouse cursor over the icon and read the tooltip that should appear shortly. You can also open a form showing all possible data icons by selecting the **Legend** toolbar option.



Information shown on the Radio Data form can be helpful to a person with some knowledge or understanding of **MOTOTRBO™ Data Services.** Regular program users may never use this option.

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Location Log Feature

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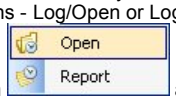
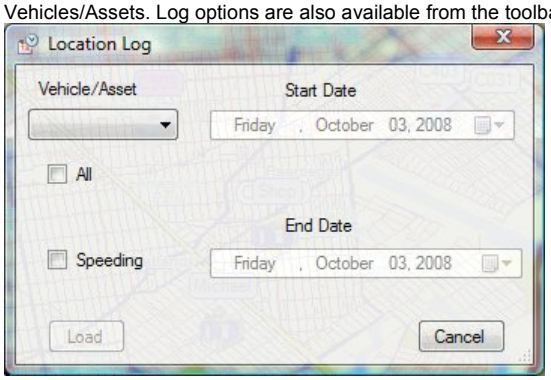
StreetTrek location data is stored at the source. Data obtained from the locally attached hardware, like as Motorola MOTOTRBO radio, is stored in the local database. All location data obtained over the Internet is stored on the StreetTrek Server. The procedure for retrieving stored data is identical for both Internet and locally stored data. Location Log is available in two forms - as a map and in a tabular form. To retrieve Location Data use one of the two options - Log/Open or Log/Report.



Log/Open activates the Visual Log presenting a map with plotted positions, while Log/Report

will generate a report in tabular form. Visual Log is available only for a single Vehicle or Asset, while tabular report can be loaded for either single Vehicle/Asset, or All Vehicles/Assets. Log options are also available from the toolbar . In either case you will be presented with a pop-up dialog.



On this dialog select the vehicle or asset from the drop down list, or check the 'All' box to request data for all vehicles/assets. StreetTrek will either query a local database, or send a request to the server for available log range. If log data is available, the two date picker controls - 'Start Date' and 'End Date', and the 'Load' button will be enabled. The date controls allow to specify the desired report range and default to the last 24 hours of available data. You can specify the desired date range by making selections in both date controls. The 'Speeding' check box allows loading only records with speed exceeding the Speed Limit. Once you done with your selections, click the 'Load' button. The Location Log pop-up will be closed and StreetTrek will either load data from the local database, or start receiving data from the Server. Selecting a wide date range may result in loading large amount of data and may take some time for data received over the Internet. In that case StreetTrek will show a progress bar indicating the progress of the download.

Location Log Form

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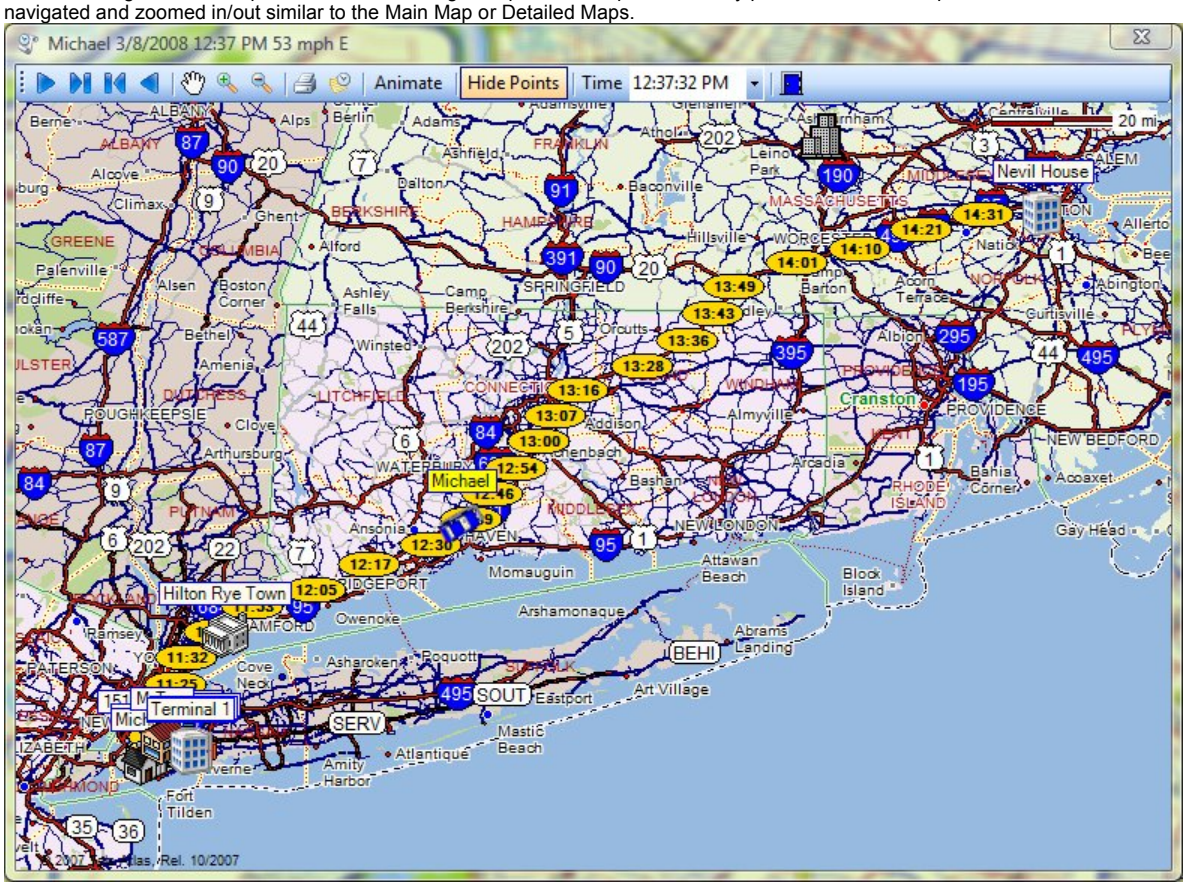
Location Log Form is a separate window showing a map with route plotted as way points with time stamps. It has it's own toolbar and can be navigated and zoomed in/out similar to the Main Map or Detailed Maps.



Unlike the detail maps, the Log Form is modal - you can't work with other forms until you close this one.
You can 'play' the vehicles route by moving the vehicle icons from one way point to another using the toolbar arrow buttons, or you can play animation

by clicking the Animate toolbar button. You can also advance the vehicle icon directly to any way point by clicking on it. When you do so, the date, time, speed and direction (if any) will be shown on the title bar. Moving the mouse cursor onto a way point will produce a balloon with similar information. Like all StreetTrek maps, log map is printable.

Individual way points are colored to indicate vehicle's status. Green indicates that ignition is on, gray - ignition is off. The color of way point becomes pink if the vehicle exceeds the use-defined speed limit. If the vehicle operates under special conditions - lights/siren, open door, raised plow, etc, way points will be drawn on yellow background.

You can open the same vehicle log in a tabular form directly from the map form by clicking the button.

Location Report Form

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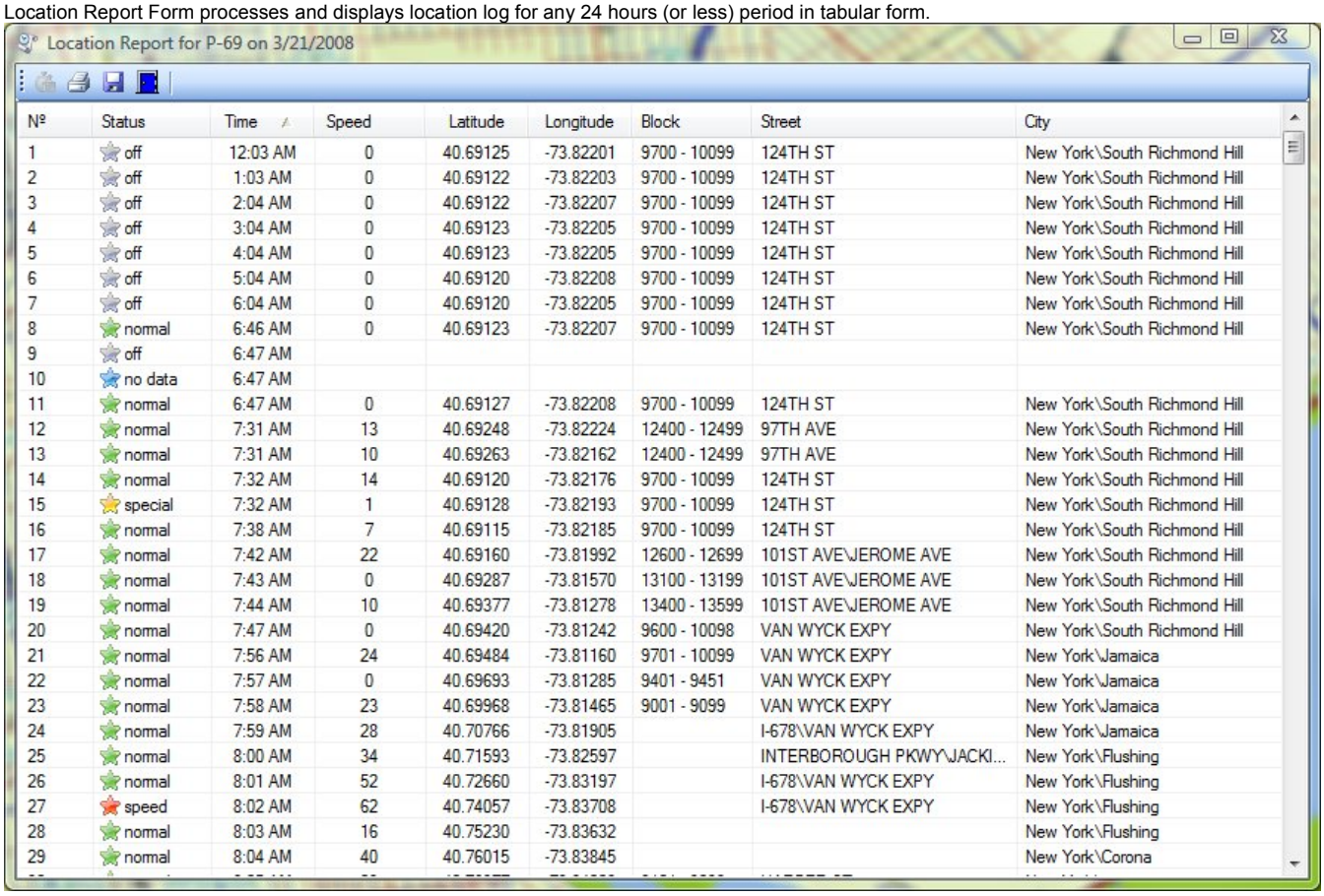
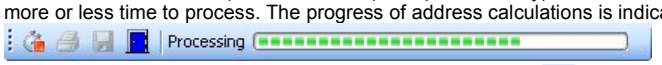
Location Report Form processes and displays location log for any 24 hours (or less) period in tabular form.



№	Status	Time	Speed	Latitude	Longitude	Block	Street	City
1	off	12:03 AM	0	40.69125	-73.82201	9700 - 10099	124TH ST	New York\South Richmond Hill
2	off	1:03 AM	0	40.69122	-73.82203	9700 - 10099	124TH ST	New York\South Richmond Hill
3	off	2:04 AM	0	40.69122	-73.82207	9700 - 10099	124TH ST	New York\South Richmond Hill
4	off	3:04 AM	0	40.69123	-73.82205	9700 - 10099	124TH ST	New York\South Richmond Hill
5	off	4:04 AM	0	40.69123	-73.82205	9700 - 10099	124TH ST	New York\South Richmond Hill
6	off	5:04 AM	0	40.69120	-73.82208	9700 - 10099	124TH ST	New York\South Richmond Hill
7	off	6:04 AM	0	40.69120	-73.82205	9700 - 10099	124TH ST	New York\South Richmond Hill
8	normal	6:46 AM	0	40.69123	-73.82207	9700 - 10099	124TH ST	New York\South Richmond Hill
9	off	6:47 AM						
10	no data	6:47 AM						
11	normal	6:47 AM	0	40.69127	-73.82208	9700 - 10099	124TH ST	New York\South Richmond Hill
12	normal	7:31 AM	13	40.69248	-73.82224	12400 - 12499	97TH AVE	New York\South Richmond Hill
13	normal	7:31 AM	10	40.69263	-73.82162	12400 - 12499	97TH AVE	New York\South Richmond Hill
14	normal	7:32 AM	14	40.69120	-73.82176	9700 - 10099	124TH ST	New York\South Richmond Hill
15	special	7:32 AM	1	40.69128	-73.82193	9700 - 10099	124TH ST	New York\South Richmond Hill
16	normal	7:38 AM	7	40.69115	-73.82185	9700 - 10099	124TH ST	New York\South Richmond Hill
17	normal	7:42 AM	22	40.69160	-73.81992	12600 - 12699	101ST AVE\JEROME AVE	New York\South Richmond Hill
18	normal	7:43 AM	0	40.69287	-73.81570	13100 - 13199	101ST AVE\JEROME AVE	New York\South Richmond Hill
19	normal	7:44 AM	10	40.69377	-73.81278	13400 - 13599	101ST AVE\JEROME AVE	New York\South Richmond Hill
20	normal	7:47 AM	0	40.69420	-73.81242	9600 - 10098	VAN WYCK EXPY	New York\South Richmond Hill
21	normal	7:56 AM	24	40.69484	-73.81160	9701 - 10099	VAN WYCK EXPY	New York\Jamaica
22	normal	7:57 AM	0	40.69693	-73.81285	9401 - 9451	VAN WYCK EXPY	New York\Jamaica
23	normal	7:58 AM	23	40.69968	-73.81465	9001 - 9099	VAN WYCK EXPY	New York\Jamaica
24	normal	7:59 AM	28	40.70766	-73.81905		I-678\VAN WYCK EXPY	New York\Jamaica
25	normal	8:00 AM	34	40.71593	-73.82597		INTERBOROUGH PKWY\JACKI...	New York\Flushing
26	normal	8:01 AM	52	40.72660	-73.83197		I-678\VAN WYCK EXPY	New York\Flushing
27	speed	8:02 AM	62	40.74057	-73.83708		I-678\VAN WYCK EXPY	New York\Flushing
28	normal	8:03 AM	16	40.75230	-73.83632			New York\Flushing
29	normal	8:04 AM	40	40.76015	-73.83845			New York\Corona

The address information (Street Address (Block), Street, City) is calculated after the form is shown. Depending on the number of records it may take more or less time to process. The progress of address calculations is indicated by a progress bar shown on the Report Form toolbar during processing.



You can stop the address calculation process by clicking the toolbar button. If you need to close the Report Form during the address calculation click the button.
The Status column legend is identical to that on the Vehicles List .

- Ignition is on.
- Ignition is off.
- The vehicle exceeds the user-defined speed limit.
- The vehicle operates under special conditions (emergency lights, door open, lift switch etc...).
- No GPS data available.

To print the table click the toolbar button. You can print a partial table by selecting multiple rows prior to clicking the printer button.

The data shown in the Report table can be exported into common formats - CSV or comma-separated format often associates with MS Excel, and in XML format. To export the Log click the toolbar button.

Vehicle and Landmark Graphics

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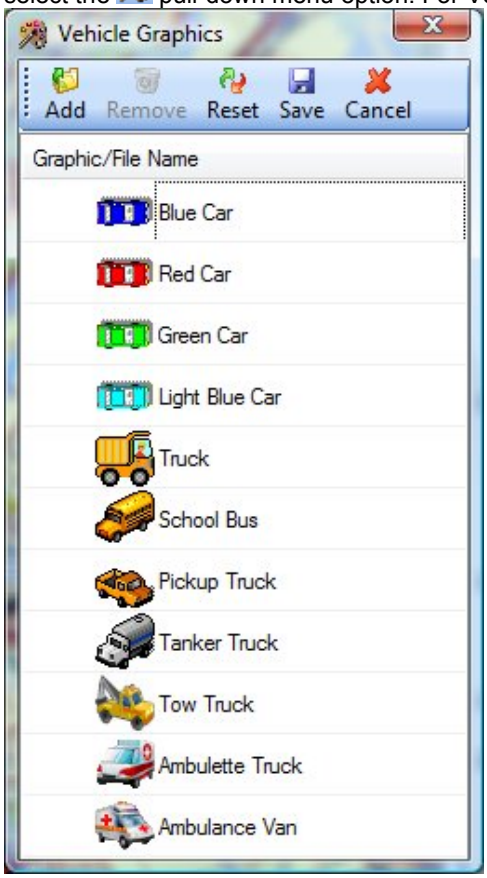
StreetTrek comes with a set of built-in vehicle and landmark graphics. You can add your own graphics in most common graphic formats -GIF, JPEG, BMP, PNG. To add your custom graphic to StreetTrek vehicles icons collection use the menu Setup/Graphics/Vehicle Graphics menu option, or click the right section of the respective Toolbar Split Button - and select the pull-down menu option. For Vehicle Graphics a window, like the one shown here



will pop up. Click the 'Add' toolbar button to show a standard Windows 'File Open' dialog. Using this dialog locate the graphic image file on your hard drive and add it to the collection by clicking OK. To remove an item from the collection highlight it and click the Remove toolbar button. To finalize your choices click the toolbar 'Save' button. You can arrange the order the icons are listed by dragging the icon to the desired position on the list.

To add/edit Landmark Graphics, select Setup/Graphics/Landmarks Graphics menu option or click on the right section of the main toolbar Split Button and select the pull-down menu option.

When choosing or creating custom vehicle and landmark graphics consider the following:
The built-in graphic are 32x32 pixels. You can use and mix images of a different size. If you want your custom graphics to be drawn transparently you have two choices. You can use or create transparent graphics in a graphic format that supports transparency. Alternatively you can use graphic images on a solid background. In that case the color of the upper left pixel will be used as 'transparent color.

You can always restore the original built-in graphic collections by clicking the 'Reset' toolbar button followed by 'Save'. When editing graphic collections keep in mind that StreetTrek assigns each vehicle or landmark a certain image. If you delete that image from the collection, StreetTrek will substitute the 'missing' image with the first image in the collection. For example, if you current fleet have vehicles shown on the map as 'School Bus', and you delete 'School Bus' from the collection, then the affected vehicles will be shown in the 'Blue Car' image.

A special consideration for vehicle graphics. The first 4 images shown in the above table are fit for rotation. If you check the 'enable rotation' box on the Vehicle Name and Icon form, then respective vehicles will be drawn corresponding to the direction they move in. Note that for rotated graphics the original graphic should be facing 'East', like the first 4 images on the above form. The 'Truck' image is less suited for rotation. The rest of the built-in vehicle graphics are not suited for rotation.

Map Folders

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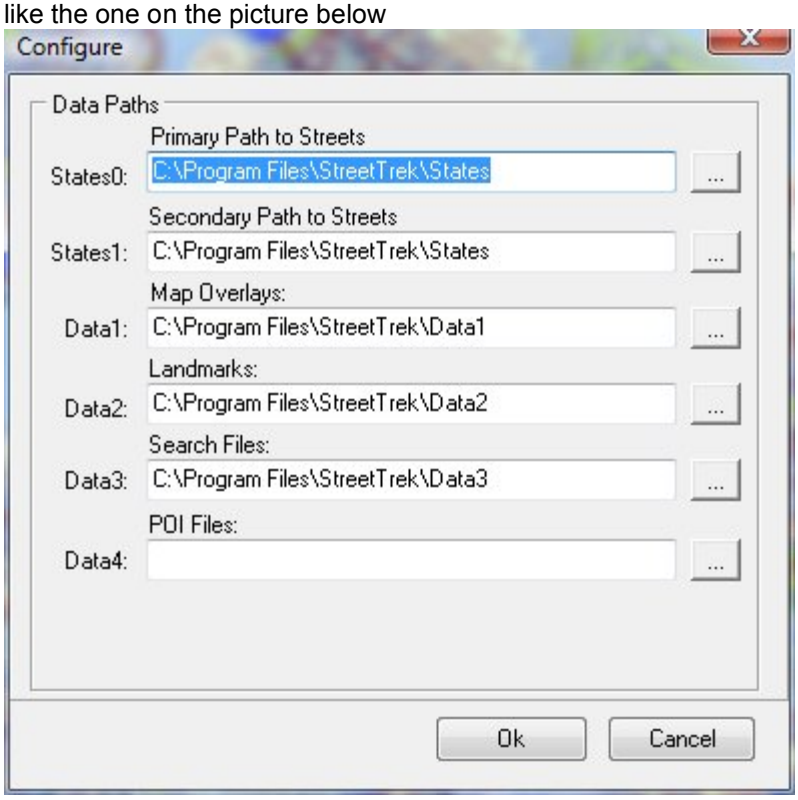
StreetTrek uses Dynamap®/Transportation Data © 2008 by Tele Atlas North America, Inc. StreetTrek installation places map folders within the StreetTrek program folder. If for whatever reason you need to move map folders to a different location or you already have compatible digital maps installed in a different location, you may need to adjust StreetTrek map path. This is done by selecting File/Map Folders. You will be presented with a form looking like the one on the picture below



with the entries pointing to the existing map folder locations. To point StreetTrek to the new map folder location, enter the new path or find the respective folder by clicking the button to the right of the entry field.
Note: States0 and States1 may point to the same folder.

Digital Maps and MapPro Mapping ActiveX control copyright information are shown in the About MapPro Form called from the Help/About MapPro menu option. Tele Atlas North America copyright notice is shown in the lower left corner of every map shown by StreetTrek.

Importing Maps

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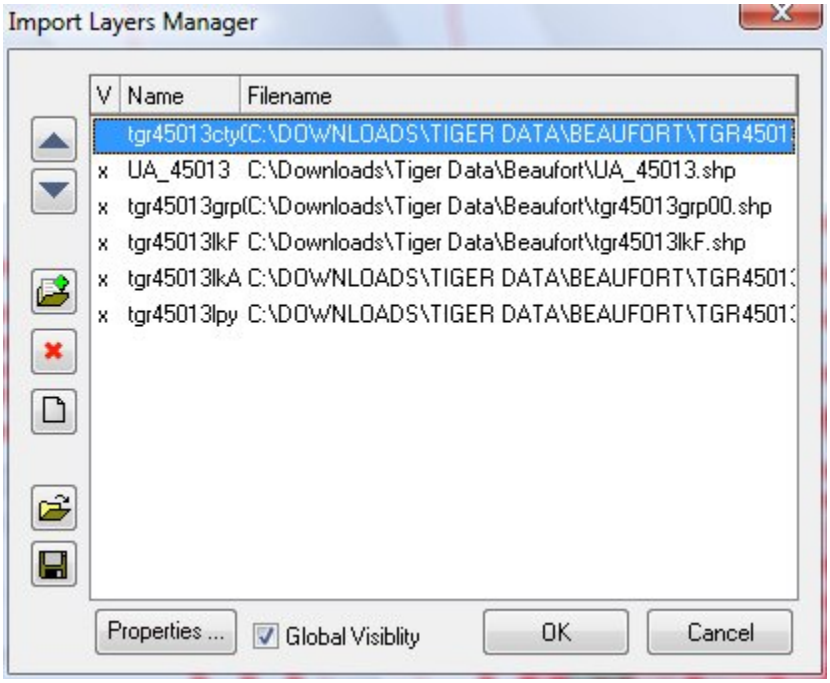
StreetTrek allows importing digital maps in ESRI Shape File Format. These maps will be drawn as layers on top of installed maps, if any. StreetTrek mapping component currently supports only SHP/DBF and MID/MIF file pairs.

To import a shape file select the Map|Import menu option or click the toolbar button. StreetTrek will open the 'Import Layer Manager Form'.



On this form click the button to open a Standard File Open Dialog where you can navigate to the file you intend to import.
You can add as many layers as you need. You can change the order in which imported layers will be drawn by moving respective lines to a another position on the list using the arrow buttons. Once the file name appears on the list you can select the desired layer properties using 'Properties' button that will produce a pop-up form like the one shown below:

Layer properties you may need to adjust include Name, Upper and Lower visibility thresholds, layer opacity, Pen for drawing lines, brush for filling polygons. Visibility thresholds define the maximum and minimum dimensions in current map units for the layer to be drawn. The Name field in the upper left part of the form allows to give the layer a descriptive name. The default layer name is the file name without extension. If you import multiple layers it makes sense providing them with names you can associates with.

To finish the import click the 'OK' button. Once the Import Manager form closes the main map will be redrawn and should show imported layers as long as they are within the current map view port and at the sufficient zoom level. Keep in mind that imported maps should be in X,Y projection - no other projections are supported at this time.